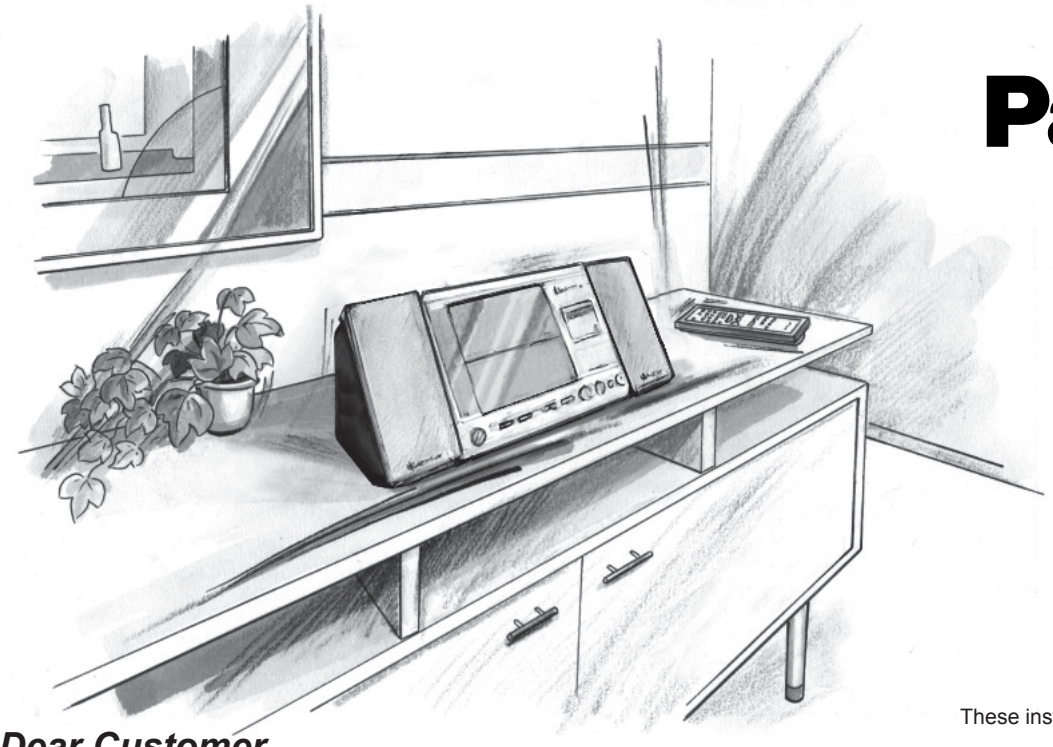

Panasonic®

Operating Instructions

CD Stereo System

Model No. ***SC-EN27***
SC-EN26
SC-EN25

COMPACT disc DIGITAL AUDIO

Dear Customer

Thank you for purchasing this product.
Before connecting, operating or adjusting this product, please read the instructions completely.
Please keep this manual for future reference.

These instructions are applicable to the following systems.

System	SC-EN25	SC-EN26	SC-EN27
Main unit	SA-EN25	SA-EN26	SA-EN27
Speakers	SB-EN25	SB-EN26	SB-EN25

SC-EN27 is used in
the illustrations unless otherwise mentioned.

Troubleshooting guide

Before requesting service, make the following checks. If you are in doubt about any of the check points, or if the solutions indicated in the chart do not solve the problem, refer to the "Customer Services Directory" on page 8 if you reside in the U.S.A., or refer to the "Limited Warranty" on page 8 if you reside in Canada.

No play.	• The disc isn't correctly set. • The disc is scratched or dirty. (Tracks skipped.) • There is moisture on the lens. Wait for about an hour and then try again.
MP3 cannot be read. (SC-EN27)	• You may not be able to play MP3 if you have copied a multi-session disc that has no data between sessions. • When creating a multi session disc, it is necessary to close the session. • The amount of data on the disc is too small. Set the amount of data to greater than approximately 5 MB.
Sound is unfixed, reversed or comes from one speaker only.	• Check the speaker connections. (☞page 2)
No sound or there is a lot of noise.	• Noise may occur when playing MP3 if recording quality is poor.(SC-EN27) • Keep this unit away from mobile telephones. • Turn the volume up. • Switch the unit off, determine and correct the cause, then switch the unit on. Causes include shorting of the positive and negative speaker wires, straining of the speakers through excessive volume or power, and using the unit in a hot environment.
Humming heard during play.	• An AC power supply cord or fluorescent light is near the cords. Keep other appliances and cords away from this unit's cords.

This product may receive radio interference caused by mobile telephones during use.
If such interference is apparent, please increase separation between the product and the mobile telephone.

A beat sound is heard while receiving a radio broadcast.	• Switch the TV off or separate it from the unit.
A low hum or noise is heard during AM broadcasts.	• Keep the antenna away from other cables and cords. • Keep the AM antenna away from the unit.
The picture on the television near the set disappears or stripes appear on the screen.	• The location and orientation of the antenna are incorrect. • The TV antenna wire is too close to the unit. Separate the antenna wire of the TV set from the unit.
Remote control doesn't work.	• Check that the batteries are inserted correctly. (☞ page 2) • Replace the batteries if they are worn.

Display

– –:– –	• You plugged the AC power supply cord in for the first time or there was a power failure recently. Set the time. (☞ page 5) • The total programmed play time is more than 200 minutes. Tracks can still be programmed and played.
FULL	• The number of programmed tracks is limited to 24. No further tracks can be programmed.
NO/MP3	• A CD-ROM disc that is not CD-DA or MP3 format is inserted. It cannot be played.
ERROR	• Incorrect operation performed. Read the instructions and try again.
F76	• There is a power supply problem. Consult the dealer.

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RQT8520-P
M1205KS0

Supplied accessories

Use the numbers indicated in parentheses when asking for replacement parts.

(As of December 2005)

In U.S.A. to order accessories, refer to "Accessory Purchases" on page 8.

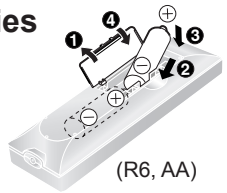
- ☐ **1 Remote control**
  (N2QAGB000037) SC-EN25/SC-EN26
  (N2QAGB000038) SC-EN27
- ☐ **2 Batteries**
- ☐ **1 AC power supply cord (RJA0065-1D)**
- ☐ **1 FM/AM antenna (N1DADYY00003)**

Note

The included AC power supply cord is for use with this unit only. Do not use it with other equipment.

The remote control

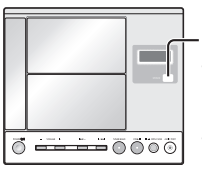
■ Batteries



(R6, AA)

- Insert so the poles (+ and –) match those in the remote control.
- Do not use rechargeable type batteries.

■ Use



Remote control signal sensor

- Aim at the sensor, avoiding obstacles, at a maximum range of 7 m directly in front of the unit.
- Operation can be affected by strong light sources, such as direct sunlight, and the glass doors on cabinets.

Maintenance

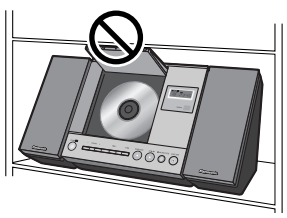
To clean this unit, wipe with a soft, dry cloth.

- Never use alcohol, paint thinner or benzine to clean this unit.
- Before using chemically treated cloth, read the instructions that came with the cloth carefully.

Care of the CD lens

- Clean the lens regularly to prevent malfunctions. Use a blower to remove dust and a cotton swab if it is extremely dirty.
  Recommended product: Lens cleaner kit (part no. SZZP1038C).
- Do not use the lens cleaner of the CD type.

Placement of speakers



Place this unit in an area with more than 240 mm (9 7/16″) of vertical space.
The CD lid may become damaged if it cannot open completely.

Placement of speakers

Left and right speakers are exactly the same.

Note

- Keep your speakers at least 10 mm (13/32″) away from the system for proper ventilation.
- These speakers do not have magnetic shielding. Do not place them near televisions, personal computers or other devices easily influenced by magnetism.
- **To avoid damage to the speakers, do not touch the speaker cones if you have taken the nets off.**

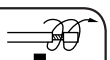
Caution

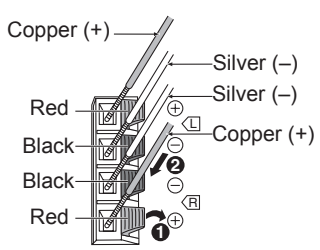
- **Use the speakers only with the recommended system. Failure to do so may lead to damage to the amplifier and/or the speakers, and may result in the risk of fire. Consult a qualified service person if damage has occurred or if you experience a sudden change in performance.**
- **Do not attach these speakers to walls or ceilings.**

Connections

1 Speakers

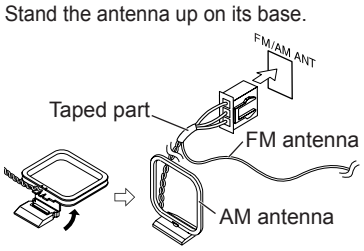
Before connecting, twist off the tip.





2 FM/AM antenna

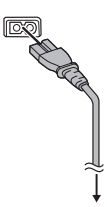
Stand the antenna up on its base.



Unplug the antenna connector by holding the taped part.

3 AC power supply cord

Connect the AC power supply cord only after all other connections have been made.



To household AC outlet

Conserving power

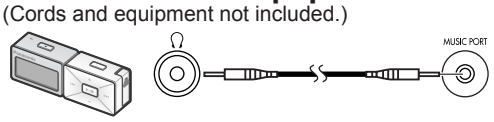
The unit consumes 2.0 W even when it is turned off with [POWER⏻/I]. To save power when the unit is not to be used for a long time, unplug it from the household AC outlet.
Remember to reset the radio stations and any other memory items before using the unit again.

Note

If the unit is left unplugged for longer than approximately two weeks, all settings will revert to the factory settings.

Portable audio equipment

(Cords and equipment not included.)



Portable audio player

Plug type: 3.5 mm (1/8″) stereo

Use

Remote control

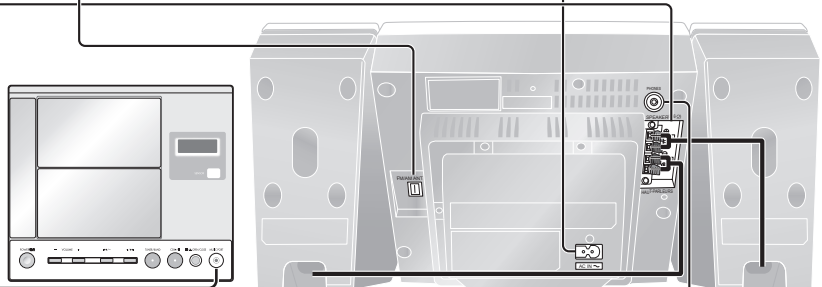
MUSIC PORT

Select "MUSIC P"

▶ **Start Playback from the Portable audio source.**

Note

- Adjust the volume and sound quality of this unit and the other equipment.
- For details, refer to the instruction manual of the other equipment.



Headphones

(Not included)

Reduce the volume before connection.
Plug type: 3.5 mm (1/8″) stereo

Note

Avoid listening for prolonged periods of time to prevent hearing damage.

The socket outlet shall be installed near the equipment and easily accessible or the mains plug or an appliance coupler shall remain readily operable.

CD operations

1 Set the CD in place.

Main unit: ■/▲ OPEN/CLOSE

Remote control: OPEN/CLOSE

Note
- **Be sure to press the [OPEN/CLOSE] button to open and close the CD lid.**
- **Damage may occur if the lid is forced closed.**

The unit comes on and the CD lid opens.

Label must face outward.

Press until you hear it click into place.
Press [▲] again to close.

Keep fingers away from the CD lid when it is closing to avoid possible minor injury.

2 Start play.

Main unit: CD ▶/II

Remote control: CD ▶/II

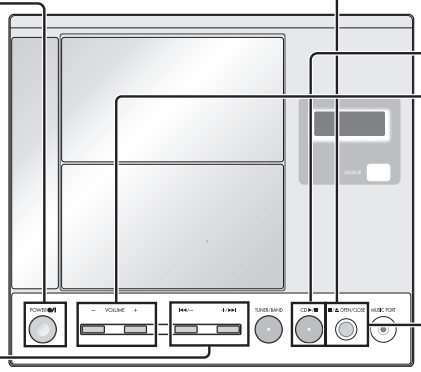
Elapsed playing time of track
Track number

Note

If the CD is already in the unit, the unit comes on and play begins.
(One touch play)

To turn on the unit

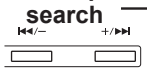
POWER ⏻/I



To adjust the volume

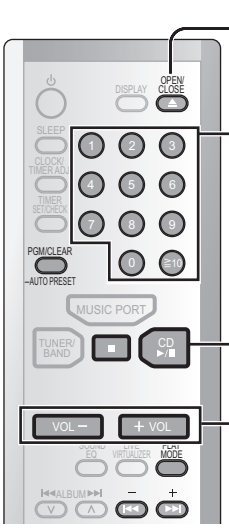
0 (Minimum) — **50** (Maximum)

To skip/ search



To stop play

■/▲ OPEN/CLOSE



Input using the numbered buttons
To select a 2-digit number
e.g. 16: [≧10] → [1] → [6]
To select a 3-digit number
e.g. 226:
[≧10] → [≧10] → [2] → [2] → [6]

To adjust the volume

Stop

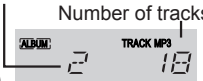
Main unit: ■/▲ OPEN/CLOSE

Remote control: ■

Number of tracks
Total play time

Number of albums
Number of tracks

MP3 (SC-EN27)



Pause

Main unit: CD ▶/II

Remote control: CD ▶/II

Press again to resume play.

Skip/ Search

Main unit: I◀◀/– +/▶▶I

Remote control: – +

Press to skip/
Press and hold to search

Note
- You can search during play or while paused.
- You cannot search through MP3 files. (SC-EN27)
- You can only search within the current track during program play, one track repeat, and random play.

Direct access play

Play starts with the track you select.

Select the desired track

Refer to page 6 regarding MP3 play. (SC-EN27 only)

Repeat play/ random play

1-↻: One track repeat
↻ : All track repeat
RND : Random play

PLAY MODE

Select the play mode

- Each time you press the button:
  1-↻ → ↻ → RND (While stopped) → No display (Canceled) →

Note
- During random play, you cannot skip to the previous track.
- You cannot select “RND” while playing MP3. (SC-EN27)
- You cannot use random play and program play at the same time.

Program play

This function allows you to program up to 24 tracks.

PGM/CLEAR –AUTO PRESET

Press while stopped

PGM

Select tracks (Maximum 24 tracks)

CD ▶/II

Start play

Track number
Sequence number

Track number
Total play time

(CD only)

- **Erase a program** (While stopped) → PGM/CLEAR –AUTO PRESET

Note

Program contents are stored in the unit’s memory even after changing to a different function or turning the unit off. All program contents are erased by pressing [PGM/CLEAR] or by opening the CD lid.

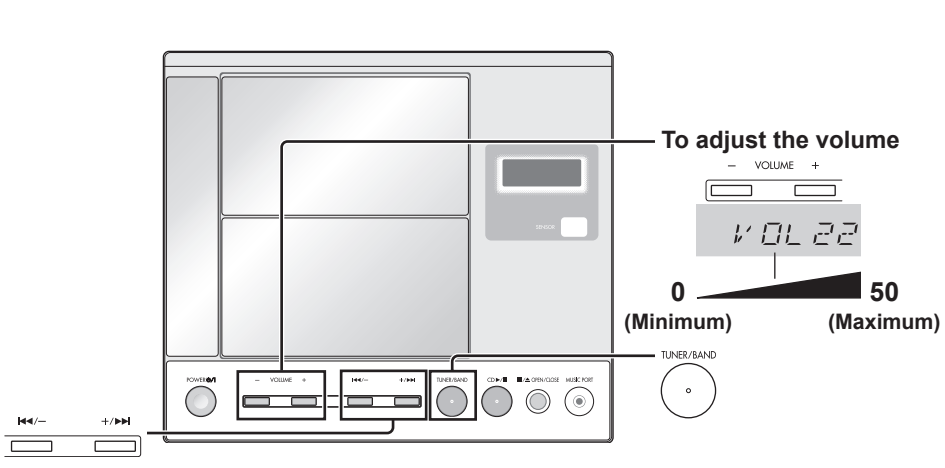
- **Confirm a programmed track** (While stopped) → – +
- **Add a program track** (While stopped) →

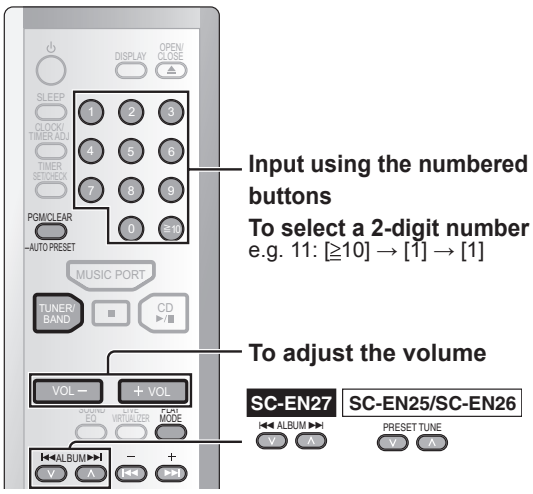
Select the track you want to add

Note
- You cannot use random play and program play at the same time.

Radio operations

Radio stations can be tuned manually by selecting the station's frequency or they can be preset into channels to make it easy to tune.
You can preset up to 20 FM channels and up to 12 AM channels.





Allocation settings

Each country allocates broadcast bands according to their particular system.

You can change the FM step. The step is factory-set to 0.2 MHz, but you can change it to receive broadcasts allocated 0.1-MHz steps.
Any FM frequencies preset in channels will be changed by this procedure. Preset them again.

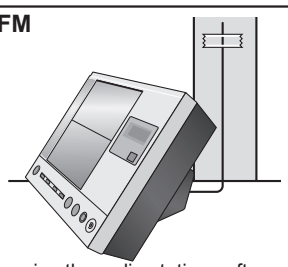
1. Select the AM band with [TUNER/BAND].
2. Press and hold [TUNER/BAND] on the unit.
After a few seconds the display changes to show the current minimum frequency. Continue to hold the button down. The minimum frequency changes and the step is changed.
To return to the original step, repeat the above steps.

Note

The preset memory will be initialized when you change the frequency step.

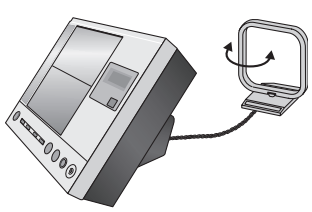
To improve reception

FM



Receive the radio stations after connecting the antenna. Then attach the antenna code on the wall or pillar in the good reception.

AM



Change the direction and location of the antenna.

If noise is excessive in FM

You can improve FM reception by switching reception to monaural.

Press to turn the MONO mode ON/OFF

Manual tuning

Main unit

Select "FM" or "AM" — Select the frequency

Remote control

Select "FM" or "AM" — Select the frequency

Auto tuning

Main unit

Select "FM" or "AM" — Press and hold until the frequency starts changing rapidly

Remote control

Select "FM" or "AM" — Press and hold until the frequency starts changing rapidly

- Auto tuning stops when it finds a station.
- To cancel auto tuning press the same button again.

Note

- Auto tuning may not function when there is excessive interference.

Automatic presetting

The tuner presets the stations it can receive into channels in ascending order.

Perform once for FM stations and once for AM stations.

Select "FM" or "AM" — Press and hold until "AUTO" appears

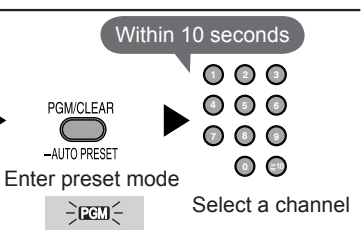
Note

During automatic presetting, the memory indicator (PGM) flashes and the frequency scrolls. The memory indicator and channel numbers are displayed for a second when a station is preset.
The first station to be preset is displayed when presetting finishes.

Manual presetting

Preset the stations one at a time.

Tune to the signal you want to set as the preset.



Enter preset mode — Select a channel

Note

The station occupying a channel is erased if another station is preset over that channel.

Selecting channels

SC-EN27 **SC-EN25/SC-EN26**

Select "FM" or "AM" — Select a channel

Select "FM" or "AM" — Select a channel

Timers and others

Press[⏻] to turn the unit on.

Setting the time

This is a 12-hour clock.

Within 10 seconds

CLOCK/ TIMER ADJ → Set the clock → Select the time (– / +) • Press and hold to change the time faster. → CLOCK/ TIMER ADJ

-- --:-- --

- **To display the clock when the unit is on** → CLOCK/ TIMER ADJ
- **To check the time when the unit is off** → TIMER SET/CHECK

Note

The clock is accurate to within ±60 seconds a month. Readjust if necessary.
Set again after disconnecting the AC power supply cord or power failure.

SLEEP timer

The SLEEP timer can turn the unit off after a set time.

SLEEP

SLEEP

- Each time you press the button:
  SLEEP 30→SLEEP 60→SLEEP 90→SLEEP 120→OFF (Canceled)→
- **To check the remaining time** → SLEEP → Press once

Note

The play timer and sleep timer can be used together. The sleep timer always has priority. Be sure not to overlap timer settings.

Sound quality

You can choose one of four types of sound quality.

SOUND EQ → Select the sound quality

EQ

- Each time you press the button:

XBS (Adds punch to rock) → CLEAR (Clarifies higher sounds) → SOFT (For background music) → VOCAL (Adds gloss to vocals) → EQ OFF (Canceled) →

Live Virtualizer

You can create a three-dimensional sound field when listening to stereo sound.

LIVE VIRTUALIZER

Press to turn the Live Virtualizer ON/OFF

Note

The actual effect depends on the source played.

Play timer

This timer starts play of the selected source at the selected time.

Preparation: Set the clock (☞ left).

1 Perform timer settings

① **Set the start time**

While the time is displayed

CLOCK/ TIMER ADJ → Select "◴PLAY ON"

◴PLAY ON
AM 7:30

Within 10 seconds

– / + → Select the start time
• Press and hold to change the time faster.

② **Set the end time**

CLOCK/ TIMER ADJ → Select "◴PLAY OFF"

◴PLAY OFF
AM 8:00

– / + → Select the end time
• Press and hold to change the time faster.

→ CLOCK/ TIMER ADJ

2 Select the source and adjust the volume

MUSIC PORT / TUNER/ BAND / CD → Select the source

VOL – / + VOL → Adjust the volume

3 Turn the timer on

TIMER SET/CHECK → Display "◴PLAY"

⏻ → Turn the unit off

◴PLAY

The unit must be off for the timer to be operated.

Note

You can enjoy any sources while the play timer is set. The timer function will be canceled when you change the frequency step. Follow the step 3 again while the unit is on.

- **To cancel the timer while the unit is on** → TIMER SET/CHECK → Clear "◴PLAY"

Note

The timer function will be canceled, but the settings stay in the memory.
The timer comes on every day if the timer is on.

- **To change the timer** → TIMER SET/CHECK → Clear "◴PLAY" and set the timer again
- **To check the setting while the unit is off** → TIMER SET/CHECK

Note

- If you turn the unit off and on again while the timer is functioning, the finish time setting will not be activated.
- When the "MUSIC P" source is selected, set the timer on the connected equipment to the same time.

Display

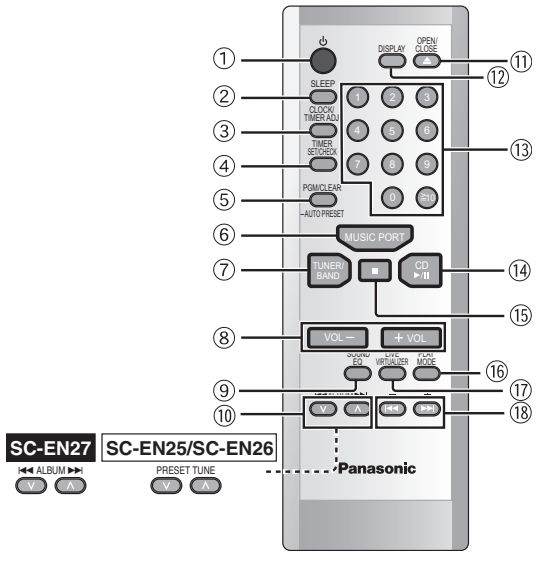
You can change the display.

DISPLAY

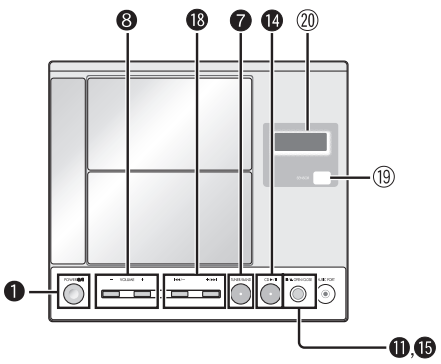
The following types of information are displayed.
- Original display
- Time display

RQT8520

Control guide



The shaded buttons, such as ❶, function in the same way as the buttons on the remote control.



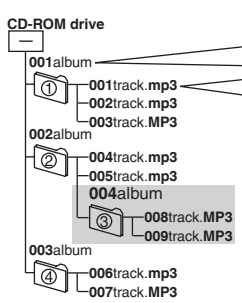
① **Standby/on switch [⏻, POWER ⏻/I]** **3**
Press to switch the unit from on to standby mode or vice versa.
In standby mode, the unit is still consuming a small amount of power.
② **SLEEP timer button [SLEEP]** **5**
③ **Clock/timer adjust button [CLOCK/TIMER ADJ]** **5**
④ **Timer set/check button [TIMER SET/CHECK]** **5**
⑤ **CD program/clear, tuner preset button [PGM/CLEAR, –AUTO PRESET]** **3, 4**
⑥ **MUSIC PORT button [MUSIC PORT]** **2**
⑦ **Tuner/band select button [TUNER/BAND]** **4**
⑧ **Volume buttons [VOL –, + VOL, – VOLUME +]** **3**
⑨ **Sound EQ button [SOUND EQ]** **5**
⑩ **SC-EN27 Album skip, preset channel select buttons [∨, ∧, ⏮ ALBUM ⏭]** **4, 6**
SC-EN25/SC-EN26 Preset channel select buttons [∨, ∧, PRESET TUNE] **4**
⑪ **CD open/close button [⏏, OPEN/CLOSE]** **3**
⑫ **Display button [DISPLAY]** **5**
⑬ **Numbered buttons [1–9, 0, ≧10]** **3**
⑭ **CD play/pause button [CD ▶/❚❚]** **3**
⑮ **CD stop button [■]** **3**
⑯ **Play mode button [PLAY MODE]** **3, 4, 6**
⑰ **Live virtualizer button [LIVE VIRTUALIZER]** **5**
⑱ **CD skip/search, frequency select, time adjust buttons [⏮, ⏭, –, +, ⏮/–, +/⏭]** **3, 4, 5**
⑲ **Remote control signal sensor**
⑳ **Display**

MP3 operations (SC-EN27 only)

This unit can play MP3, a method of compressing audio without overly hurting audio quality.

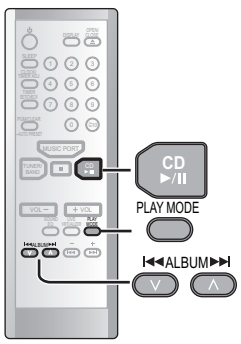
When creating MP3 files to play on this unit

- Maximum number of tracks and albums: 999 tracks and 256 albums.
- Compatible compression rate: Between 64 kbps and 320 kbps (stereo). 128 kbps (stereo) is recommended.
- Disc formats: ISO9660 level 1 and level 2 (except for extended formats).
- It is better not to create folders (album) within folders (**004**album below).
- The time for reading TOC depends on the number of the tracks, the folders or folder structures.



Naming tracks and albums
Prefix with 3-digit numbers in the order you want to play
Extension
001track.**mp3** (or.**MP3**)

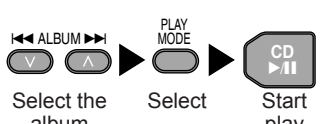
If you created an album such as **004**album on the left, the files may not play in order.
The albums would play in the order ①, ②, ③, ④.
Title names and album names are not displayable on this unit.



Album play
You can listen to tracks within albums.

ALBUM : Album play

ALBUM ↻: Album repeat



- **Skip the album** → ⏮ ALBUM ⏭

Limitations on MP3

- This unit is compatible with multi-session but if there are a lot of sessions it takes more time for play to start. Keep the number of sessions to a minimum to avoid this.
- This unit cannot play files recorded using packet write.
- If the disc includes both MP3 and normal audio data (CD-DA), the unit plays the type recorded in the inner part of the disc.
  If the disc includes both MP3 and other types of audio data (e.g. WMA or WAV), the unit plays only the MP3.
- Depending on how you create MP3 files, they may not play in the order you numbered them or may not play at all.

Regarding CDs

Note on CD-R and CD-RW

This unit can play CD-R and CD-RW recorded with CD-DA or MP3 (MP3: SC-EN27 only). Use an audio recording disc for CD-DA and finalize* it when you finish recording.
The unit may not be able to play some discs due to the condition of the recording.
*A process performed after recording that enables CD-R/CD-RW players to play audio CD-R and CD-RW.

Caution

Choose discs with this mark:
Do not;
- use irregularly shaped CDs.
- attach extra labels and stickers.
- use CDs with labels and stickers that are coming off or with adhesive exuding from under labels and stickers.
- attach scratch-proof covers or any other kind of accessory.
- write anything on the CD.
- clean CDs with liquids (Wipe with a soft, dry cloth.).

Note about using a DualDisc

- The digital audio content side of a DualDisc does not meet the technical specifications of the Compact Disc Digital Audio (CD-DA) format so play may not be possible.
- Do not use a DualDisc in this unit as it may not be possible to insert it correctly and it may get scratched or scraped.

IMPORTANT SAFETY INSTRUCTIONS

Read these operating instructions carefully before using the unit. Follow the safety instructions on the unit and the applicable safety instructions listed below. Keep these operating instructions handy for future reference.

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments/accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Listening caution

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion–and, most importantly, without affecting your sensitive hearing.
We recommend that you avoid prolonged exposure to excessive noise.
Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing.
Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.
To establish a safe level:
• Start your volume control at a low setting.
• Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.
Once you have established a comfortable sound level:
• Set the dial and leave it there.
Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

-If you see this symbol-

Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union.
If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE, DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

CAUTION!

DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT-IN CABINET OR IN ANOTHER CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED. TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING, ENSURE THAT CURTAINS AND ANY OTHER MATERIALS DO NOT OBSTRUCT THE VENTILATION VENTS.

CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

THE FOLLOWING APPLIES ONLY IN THE U.S.A.

FCC Note:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

Any unauthorized changes or modifications to this equipment would void the user's authority to operate this device.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Responsible Party:
Panasonic Corporation of North America
One Panasonic Way
Secaucus, NJ 07094
Telephone No.: 1-800-211-7262

CAUTION	INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM. (IEC60825-1/Class 3b)
ATTENTION	RAYONNEMENT LASER INVISIBLE DANGEREUX EN CAS D'OUVERTURE ET. LORSQUE LA SECURITE EST NEUTRALISEE. EXPOSITION DANGEREUSE AU FAISCEAU.
ADVARSEL	USYNLIG LASERSTRÅLING VED ÅBNING. NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION, UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO!	AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTÖNTÄ LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING	OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN.
VORSICHT	UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET UND SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT. NICHT DEM STRAHL AUSSETZEN.
ADVARSEL	USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN. RQLXS0053

ONLY FOR CANADA

(Inside of product)

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Specifications

■ Main unit

Radio
Frequency range
FM 87.9 to 107.9 MHz (200 kHz steps)
87.5 to 108.0 MHz (100 kHz steps)
AM 520 to 1710 kHz (10 kHz steps)

CD player
Sampling frequency 44.1 kHz
Decoding 16 bit linear
Beam source
Semiconductor laser (wavelength 795 nm)
Number of channels 2 channel, stereo
Wow and flutter
Less than possible measurement data
D/A converter MASH(1 bit DAC)

Terminals
Input MUSIC PORT: 3.5 mm stereo (33 kΩ)
Output PHONES: 3.5 mm stereo (32 Ω)
General
Power supply AC 120 V, 60 Hz
Power consumption 16 W
Dimensions (W×H×D) 241 mm×206 mm×206 mm (9 1/2″ ×8 1/8″ ×8 1/8″)
Mass
With speakers 3.1 kg (6 lb. 13 oz.)
Without speakers 1.8 kg (3 lb. 15 oz.)

■ Speakers

Full range 8 cm (3 1/8″), 6 Ω×2
Dimensions (W×H×D) 91 mm×206 mm×176 mm (3 19/32″ ×8 1/8″ ×6 15/16″)

Power consumption in standby mode: 2.0 W

Note

Specifications are subject to change without notice. Mass and dimensions are approximate.

MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia.

Panasonic Consumer Electronics Company,
Division of Panasonic Corporation of North America
One Panasonic Way Secaucus, New Jersey 07094

ONLY FOR U.S.A.

Panasonic Puerto Rico, Inc.
Ave. 65 de Infantera, Km. 9.5
San Gabriel Industrial Park, Carolina, Puerto Rico 00985

Panasonic Audio Products Limited Warranty

Limited Warranty Coverage
If your product does not work properly because of a defect in materials or workmanship, Panasonic Consumer Electronics Company or Panasonic Puerto Rico, Inc. (collectively referred to as "the warrantor") will, for the length of the period indicated on the chart below, which starts with the date of original purchase ("warranty period"), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

Product or Part Name	Parts	Labor
Audio Products (except items listed below)	One (1) year	One (1) year
USB Reader-Writer, Personal Computer Card Adapters (in exchange for defective item)	One (1) year	Not Applicable
Accessories: Headphones, Cartridges, Microphones, Adapters	Ninety (90) days	Ninety (90) days
Rechargeable Batteries DVD-R/-RAM Discs (in exchange for defective item)	Ten (10) days	Not Applicable
SD Memory Cards, Rechargeable Battery Packs (in exchange for defective item)	Ninety (90) days	Not Applicable

During the "Labor" warranty period there will be no charge for labor. During the "Parts" warranty period, there will be no charge for parts. You must carry-in or mail-in your product during the warranty period. If non-rechargeable batteries are included, they are not warranted. This warranty only applies to products purchased and serviced in the United States or Puerto Rico. This warranty is extended only to the original purchaser of a new product which was not sold "as is". A purchase receipt or other proof of the original purchase date is required for warranty service.

Carry-In or Mail-In Service
For Carry-In or Mail-In Service in the United States call 1-800-211-PANA (1-800-211-7262) or visit Panasonic web site: http://www.panasonic.com
For assistance in Puerto Rico call Panasonic Puerto Rico, Inc. (787)-750-4300 or fax (787)-768-2910.

Limited Warranty Limits And Exclusions
This warranty ONLY COVERS failures due to defects in materials or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or commercial use (such as in a hotel, office, restaurant, or other business), rental use of the product, service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, travel to and from the servicer, loss of media or images, data or other memory content. The items listed are not exclusive, but are for illustration only.) **ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED TO THE PERIOD OF THE LIMITED WARRANTY.**

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or Servicenter. If the problem is not handled to your satisfaction, then write to the warrantor's Consumer Affairs Department at the addresses listed for the warrantor.

PARTS AND SERVICE WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY ARE YOUR RESPONSIBILITY.

Customer Services Directory

Obtain Product Information and Operating Assistance; locate your nearest Dealer or Servicenter; purchase Parts and Accessories; or make Customer Service and Literature requests by visiting our Web Site at:
http://www.panasonic.com/consumersupport
or, contact us via the web at:
http://www.panasonic.com/contactinfo
You may also contact us directly at:
1-800-211-PANA (7262),
Monday-Friday 9 am-9 pm; Saturday-Sunday 10 am-7 pm, EST.

For hearing or speech impaired TTY users, TTY: 1-877-833-8855

Accessory Purchases

Purchase Parts, Accessories and Instruction Books online for all Panasonic Products by visiting our Web Site at: *http://www.pasc.panasonic.com*
or, send your request by E-mail to: *npcparts@us.panasonic.com*
You may also contact us directly at:
1-800-332-5368 (Phone) 1-800-237-9080 (Fax Only)
(Monday - Friday 9 am to 8 pm, EST.)
Panasonic Services Company
20421 84th Avenue South, Kent, WA 98032 (We Accept Visa, MasterCard, Discover Card, American Express, and Personal Checks)

For hearing or speech impaired TTY users, TTY: 1-866-605-1277

Service in Puerto Rico

Panasonic Puerto Rico, Inc.
Ave. 65 de Infanter'a, Km. 9.5, San Gabriel Industrial Park, Carolina, Puerto Rico 00985
Phone (787)750-4300, Fax (787)768-2910

ONLY FOR CANADA

Panasonic Canada Inc.

PANASONIC/TECHNICS PRODUCT - LIMITED WARRANTY

Panasonic Canada Inc. warrants this product to be free from defects in material and workmanship and agrees to remedy any such defect for a period as stated below from the date of original purchase.

Technics Audio Product ——— One (1) year, parts and labour
Panasonic Audio & DVD Product ——— One (1) year, parts and labour
Accessories including rechargeable batteries —— Ninety (90) days

In-home Service will be carried out only to locations accessible by roads and within 50 km of an authorized Panasonic service facility.

LIMITATIONS AND EXCLUSIONS

This warranty does not apply to products purchased outside Canada or to any product which has been improperly installed, subjected to usage for which the product was not designed, misused or abused, damaged during shipping, or which has been altered or repaired in any way that affects the reliability or detracts from the performance, nor does it cover any product which is used commercially. Dry cell batteries are also excluded from coverage under this warranty.
This warranty is extended to the original end user purchaser only. A purchase receipt or other proof of date of original purchase is required before warranty service is performed.
THIS EXPRESS, LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
IN NO EVENT WILL PANASONIC CANADA INC. BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES.
In certain instances, some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, or the exclusion of implied warranties, so the above limitations and exclusions may not be applicable.

WARRANTY SERVICE

FOR PRODUCT OPERATION ASSISTANCE,
please contact:
Our Customer Care Centre:
Telephone #: (905) 624-5505
1-800 #: 1-800-561-5505
Fax #: (905) 238-2360
Email link: "Contact Us" on www.panasonic.ca

FOR PRODUCT REPAIRS,
please locate your nearest Authorized Servicentre at www.panasonic.ca :
Link : "Servicentres™ locator" under "Customer support"

Panasonic Factory Service:

Richmond British Columbia
Panasonic Canada Inc.
12111 Riverside Way
Richmond BC V6W 1K8
Tel: (604) 278-4211
Fax: (604) 278-5627

Mississauga Ontario
Panasonic Canada Inc.
5770 Ambler Drive
Mississauga ON L4W 2T3
Tel: (905) 624-8447
Fax: (905) 238-2418

IF YOU SHIP THE PRODUCT TO A SERVICENTRE
Carefully pack and send prepaid, adequately insured and preferably in the original carton.
Include details of the defect claimed, and proof of date of original purchase.

Product Service

1. **Damage requiring service —** The unit should be serviced by qualified service personnel if:
   (a) The AC power supply cord or the plug has been damaged; or
   (b) Objects or liquids have gotten into the unit; or
   (c) The unit has been exposed to rain; or
   (d) The unit does not operate normally or exhibits a marked change in performance; or
   (e) The unit has been dropped or the cabinet damaged.
2. **Servicing —** Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.
3. **Replacement parts —** When parts need replacing ensure the servicer uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.
4. **Safety check —** After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

The servicer will require all components to service your system.
Therefore, should service ever be necessary, be sure to bring the entire system.

Product information

For product information or assistance with product operation:
In the U.S.A., refer to "Customer Services Directory" above.
In Canada, refer to "Limited Warranty" on the left.

The model number and serial number of this product can be found on either the back or the bottom of the unit.
Please note them in the space provided below and keep for future reference.

MODEL NUMBER _____

SERIAL NUMBER _____

User memo:

DATE OF PURCHASE
DEALER NAME _____
DEALER ADDRESS _____
_____
TELEPHONE NUMBER _____